



State Revolving Fund Loan Programs

Drinking Water, Wastewater, Nonpoint Source

ENVIRONMENTAL ASSESSMENT AND FINDING OF NO SIGNIFICANT IMPACT

CITY OF SOUTH BEND KENNEDY PARK SEWER SEPARATION SRF PROJECT WW09 54 71 02

DATE: November 10, 2009

TARGET PROJECT APPROVAL DATE: December 10, 2009

I. INTRODUCTION

The above entity has applied to the Waste Water State Revolving Loan Fund (SRF) for a loan to finance all or part of the waste water project described in the accompanying Environmental Assessment (EA). As part of facilities planning requirements, an environmental review has been completed which addresses the project's impacts on the natural and human environment. This review is summarized in the attached EA.

II. PRELIMINARY FINDING OF NO SIGNIFICANT IMPACT (FNSI)

The SRF Waste Water Program has evaluated all pertinent environmental information regarding the proposed project and determined that an Environmental Impact Statement is not necessary. Subject to responses received during the 30-day public comment period, and pursuant to Indiana Code 4-4-11, it is our preliminary finding that the construction and operation of the proposed facilities will result in no significant adverse environmental impact. In the absence of significant comments, the attached EA shall serve as the final environmental document.

III. COMMENTS

All interested parties may comment upon the EA/FNSI. Comments must be received at the address below by the deadline date above. Significant comments may prompt a reevaluation of the preliminary FNSI; if appropriate, a new FNSI will be issued for another 30-day public comment period. A final decision to proceed, or not to proceed, with the proposed project shall be effected by finalizing, or not finalizing, the FNSI as appropriate. Comments regarding this document should be sent within 30 days to:

Amy Henninger
Senior Environmental Manager
State Revolving Fund -- IGCN 1275
100 N. Senate Ave.
Indianapolis, IN 46204
317-232-6566

ENVIRONMENTAL ASSESSMENT

I. PROJECT IDENTIFICATION

Project Name and Address:	Kennedy Park Sewer Separation City of South Bend Department of Public Works 1316 County-City Building 227 W. Jefferson Boulevard South Bend, IN 46601-1830
SRF Project Number:	WW09 54 71 02
Authorized Representative:	Mr. Gary Gilot, Director of Public Works City of South Bend

II. PROJECT LOCATION

South Bend is located in St. Joseph County in northern Indiana. The project area is bounded on the north by Lincoln Avenue and Ardmore Avenue, on the east by Bendix Drive, to the south by Westmoor Street, and on the west by Olive Street, (Exhibit 5.2).

III. PROJECT NEED AND PURPOSE

The sewers in the area are combined sewers that are 75 years old. The purpose of the project is to remove all of the storm water connections to the combined sewers, thereby eliminating storm water from entering the combined sewer during storm events which causes basement back-ups and CSO overflow events. This project is part of the city's Long Term Control Plan (LTCP) and will assist the city with complying with their LTCP and other regulatory requirements.

IV. PROJECT DESCRIPTION

The project consists of installation of approximately 9,146 feet of storm sewer ranging in size from 12-inch through 36-inch, approximately 1,560 feet of infiltration chambers, infiltration basins, bio-retention basins, pavement removal and replacement, curb and gutter removal and replacement, sod placement and landscaping.

V. ESTIMATED PROJECT COSTS, AFFORDABILITY AND FUNDING

A. Selected Plan Estimated Cost Summary

Construction Item	Costs
Clearing and Grubbing	\$ 60,000
Bio-retention Basins	100,000
Infiltration Basins	800,000
Infiltration Detention Chambers	131,000
Landscaping and Sod	204,500
Watermain Removal and Replacement	230,000
Pavement Removal and Replacement	1,600,000
Sidewalk Removal and Replacement	70,000
Sewer Installation	<u>3,666,957</u>
	\$ 6,862,457
Contingencies	<u>686,245</u>
Total Estimated Construction Cost	\$ 7,548,702
Non-Construction Costs	
Administrative and Legal	\$ 170,000
Engineering Fees:	
Design	276,062
Construction	<u>343,123</u>
Non-Construction Subtotal	\$ 789,185
Total Estimated Project Cost	\$ 8,337,887

- B. The city will borrow approximately \$8,337,887 through a 20-year State Revolving Fund Loan Program (SRF) loan at an interest rate to be determined at loan closing. Monthly user rates and charges may need to be analyzed to determine if adjustments are required for loan repayment.

VI. DESCRIPTION OF EVALUATED ALTERNATIVES

A. "No Action"

This alternative was rejected, since the city is required to meet the goals of their LTCP by reducing the frequency and magnitude of the wet weather CSO events that discharge to the St Joseph River.

B. Storm Sewer with discharge to St. Joseph River

This alternative evaluated transporting all of the storm water in the study area to the St. Joseph River. This alternative was rejected because the additional storm water entering the river during storm events would contribute to the overall potential flooding of the area adjacent to the river and also place additional pollutants into the river which impacts the health and well being of residents and wildlife.

C. Storm Sewer, Detention Pond, and Overflow to the Combined Sewer

This alternative evaluated installing storm sewers in the area with all storm water flow going into detention ponds with overflows going back into the combined sewers. This alternative was rejected because the depth of the detention ponds necessary to store the storm water were very deep and a hazard to the public in the area as well as the storm water flowing back into the combined sewers did not meet the objective of the LTCP.

D. Storm Sewer with Low Impact Development/Green Solutions

This is the selected alternative.

VII. ENVIRONMENTAL IMPACTS OF THE FEASIBLE ALTERNATIVES

A. Direct Impacts of Construction and Operation

Disturbed and Undisturbed Areas: The proposed project will be constructed within street right-of-ways that have been previously disturbed during the original construction of the subdivision.

Structural Resources and Historic Sites (Exhibit 5.4): The proposed project should not affect any historical or architectural structures. The SRF's finding, pursuant to the Section 106 of the National Historic Preservation Act, is: "no historic properties affected."

Plants and Animals: The proposed project will not impact state or federal-listed endangered species or their habitat.

Prime Farmland: The proposed project will not cause a conversion of prime farmland.

Wetlands (Exhibit 5.5): The proposed project will not impact any wetlands.

100-Year Floodplain (Exhibit 5.6): The proposed project will not impact the 100-year floodplain.

Surface Waters: The proposed project will not adversely affect water of high quality listed in 327 IAC 2-1-2(3), exceptional use streams listed in 327 IAC 2-1-11(b), Natural, Scenic and Recreational Rivers and Streams listed in 312 IAC 7-2, Salmonid Streams listed in 327 IAC 2-1.5-5(a) (3), or waters on the Outstanding Rivers list (Natural Resources Commission Non-Rule Policy Document).

Groundwater: The proposed project may require dewatering along the sewer installation. The project is located in the St. Joseph Sole Source Aquifer. However, the project will not adversely affect the aquifer.

Air Quality: Construction may cause short term impacts to air quality, such as dust, odors, airborne contaminants and noise from the operation of the equipment.

Open Space and Recreational Opportunities: The proposed project's construction and operation will neither create nor destroy open space and recreational opportunities.

National Natural Landmarks: The construction and operation of the proposed project will not impact National Natural Landmarks.

The proposed project will not affect the Lake Michigan Coastal Zone.

B. Indirect Impacts

The city's Preliminary Engineering Report (PER) states: *The City through the authority of its council, planning commission, or other means, will ensure the future development, as well as future collection systems or treatment works projects connecting to SRF funded facilities, will not adversely impact wetlands, forested areas, steep slopes, 100-year floodplains, archaeological/historical/structural resources, or other sensitive environmental resources. The City will require new developments and treatment works projects to be constructed within the guidelines of the U.S. Fish and Wildlife Service, DNR, IDEM and other environmental review authorities.*

C. Comments from Environmental Review Authorities

This document serves as the first notice to the State Historic Preservation Officer, the Indiana Department of Natural Resources Environmental Unit and the U. S. Fish and Wildlife Service.

VIII. MITIGATION MEASURES

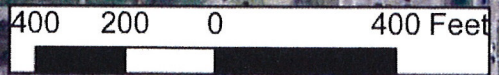
The city's PER lists the following mitigation measures:

- A. As determined appropriate, precautions shall be taken during construction to prevent erosion and sediment transport.*
- B. Mitigation measures cited in comment letters received from the reviewing agencies will be implemented.*
- C. All disturbed areas shall be restored to their pre-construction level.*
- D. Drainage systems will be stabilized as early as possible to avoid sedimentation problems.*
- E. Surface and subsurface drainage patterns will be restored as early as possible.*

IX. PUBLIC PARTICIPATION

A properly noticed public hearing was held on April 6, 2009 at 9:00 a.m., at the City of South Bend Board of Public Works to discuss the PER and solicit citizens views, questions and concerns regarding the proposed project; no comments were raised during the public hearing and no written comments were received during the five day comment period following the hearing.

- Catch basin
- Manhole
- Other
- Swaled Bump-Outs
- Storm Lines
- Project Limits



Project Area 2005 Aerial Photography

Applicant: City of South Bend
Department of Public Works
227 W. Jefferson Blvd. Suite 1300 N
South Bend, Indiana 46601

Kennedy Park Sewer Separation

Location: South Bend
Township: Portage
County: St. Joseph
State: Indiana

Date: 02/25/2009

Exhibit 5.2

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SOURCE: City of South Bend Summary Report
Indiana Historic Sites and Structures Inventory



Overlay of Quadrant 44 (24000-24999)
2005 Aerial Photography

Applicant: City of South Bend
Department of Public Works
227 W. Jefferson Blvd. Suite 1300 N
South Bend, Indiana 46601

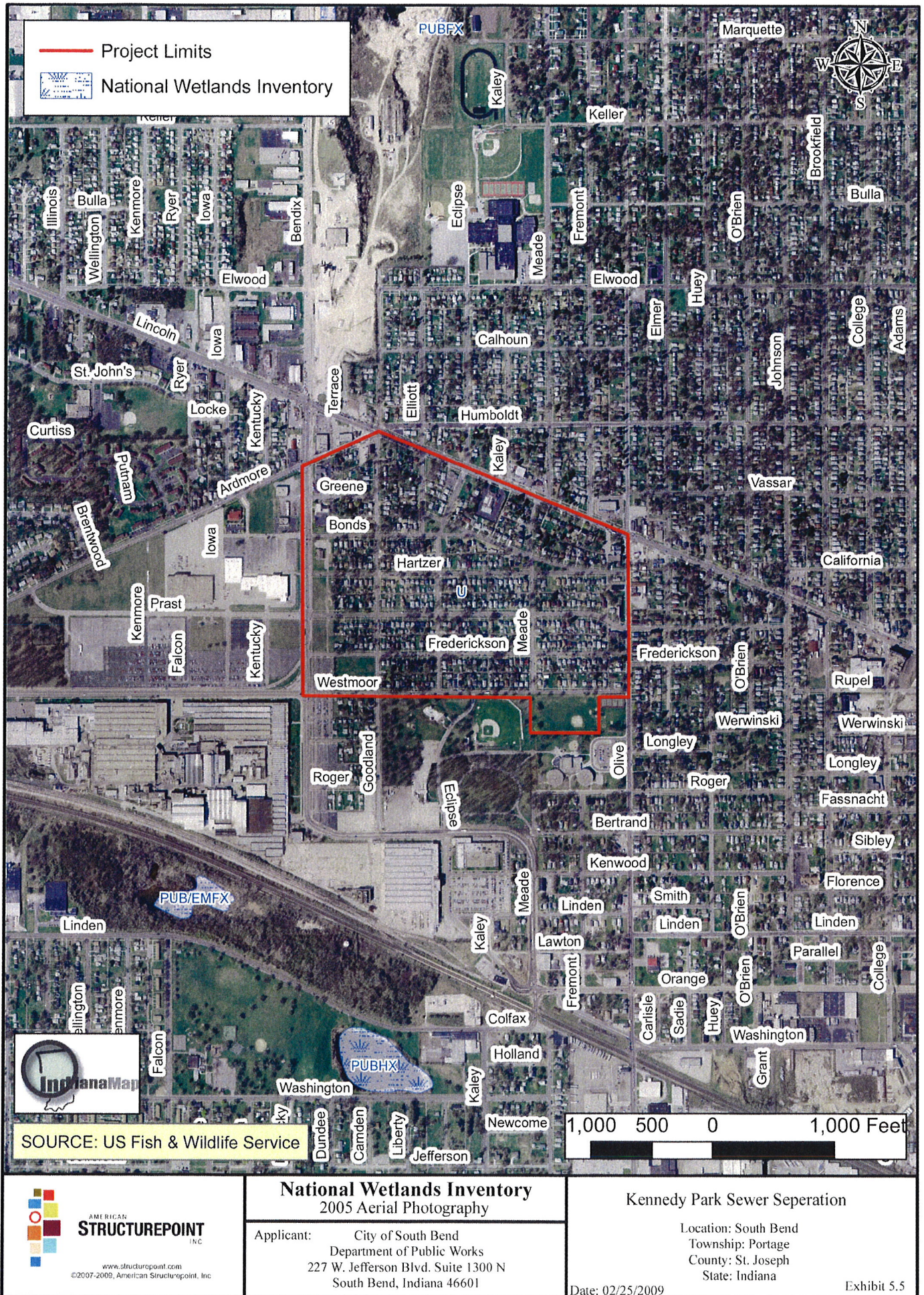
Kennedy Park Sewer Separation

Location: South Bend
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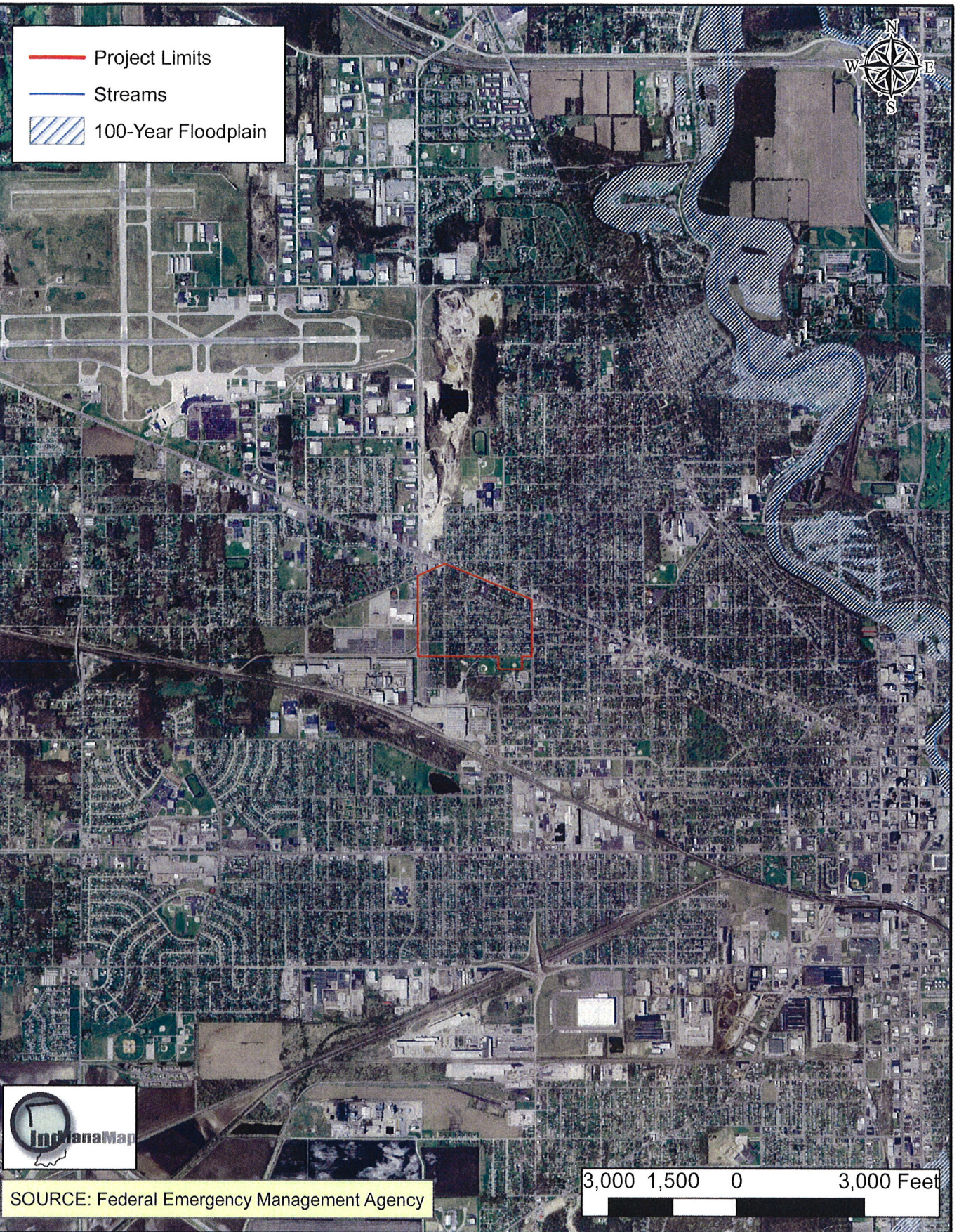
Date: 02/25/2009

Exhibit 5.4

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- Project Limits
- Streams
- 100-Year Floodplain



SOURCE: Federal Emergency Management Agency

3,000 1,500 0 3,000 Feet



100-Year Floodplain 2005 Aerial Photography

Applicant: City of South Bend
Department of Public Works
227 W. Jefferson Blvd. Suite 1300 N
South Bend, Indiana 46601

Kennedy Park Sewer Separation

Location: South Bend
Township: Portage
County: St. Joseph
State: Indiana

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Exhibit 5.6